

Amendments to the Claims:

Please amend the claim as shown below, in which deleted terms are shown with strikethrough and/or double brackets, and added terms are shown with underscoring. Also, cancel claims 13 and 19 without prejudice, and without dedication or abandonment of the subject matter thereof. This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (cancelled).

Claim 2 (currently amended). The land mobile satellite communication system as claimed in claim 3, including[[,]] a plurality of said communication satellite stations respectively mounted on a plurality of low earth communication satellites and each said station including a means for communicating with other said stations through inter-satellite links.

Claim 3. (currently amended) A land mobile satellite communication system comprising:

at least one communication satellite station;

a plurality of portable communication terminals for communicating with each other through a communication link to be formed to include said at least one communication satellite station; and

a plurality of mobile repeater stations mounted on mobiles located on the earth for repeating a communication in said communication link formed between said portable

communication terminals and including said at least one communication satellite station,

wherein:

each said mobile repeater station includes a means for communicating with said at least one communication satellite station[[s]] by using a carrier wave of higher frequency than a frequency of a carrier wave to be used for communicating with said portable communication terminals; and

~~said mobile repeater stations are not dedicated for use in association with any given ones of said portable communication terminals~~ a communication link between any specific one of the communication terminals and any specific one of said at least one communication satellite station can be established via a plurality of communication channels respectively including different ones of the mobile repeater stations.

Claim 4 (previously presented). A land mobile-satellite communication system comprising:

a plurality of said communication satellite stations respectively mounted on a plurality of low earth communication satellites and each said station including a means for communicating with other said stations through inter-satellite links;

a plurality of portable communication terminals for communicating with each other through a communication link to be formed to include said communication satellite stations; and

a plurality of mobile repeater stations mounted on mobiles located on the earth for repeating a communication in said communication link formed between said portable communication terminals and including said communication satellite stations;

said portable communication terminals include a means for transmitting a position signal repeatedly, said position signal including an identification code of the portable communication terminals and a test pattern;

said mobile repeater stations include a means for transmitting a repeated position signal to said communication satellite stations by adding a self identification code to said position signal received from said portable communication terminals; and

said communication satellite stations include a means for selecting one of said mobile repeater stations which transmits said repeated position signal including the test pattern having a highest quality to be a mobile repeater station for the portable communication terminals.

Claim 5 (previously presented). Land mobile satellite communication system comprising:

a plurality of said communication satellite stations respectively mounted on a plurality of low earth communication satellites and each said station including a means for communicating with other said stations through inter-satellite links;

a plurality of portable communication terminals for communicating with each other through a communication link to be formed to include said communication satellite stations; and

a plurality of mobile repeater stations mounted on mobiles located on the earth for repeating a communication in said communication link formed between said portable communication terminals and including said communication satellite stations;

said mobile repeater stations include a means for communicating with said communication satellite stations by using a carrier wave of higher frequency than a frequency of a carrier wave to be used for communicating with said portable communication terminals;

said portable communication terminals include a means for transmitting a position signal approximately periodically, said position signal including an identification code of the portable communication terminals and a test pattern;

said mobile repeater stations including a means for transmitting a repeated position signal to said communication satellite stations by adding a self identification code to said position signal received from said portable communication terminals; and

said communication satellite stations include a means for selecting one of said mobile repeater stations which transmits said repeated position signal including the test pattern having a highest quality to be a mobile repeater station for the portable communication terminals.

Claim 6 (Original). The land mobile satellite communication system as claimed in claim 2, wherein:

said portable communication terminals include a means for communicating with said mobile repeater stations as well as with conventional land mobile communication systems.

Claim 7 (Original). The land mobile satellite communication system as claimed in claim 2, wherein:

said mobile repeater stations include a means for converting at least one of frequency and modulation for communication by changing software to allow communication with conventional land mobile communication systems.

Claim 8 (Original). The land mobile satellite communication system as claimed in claim 2, wherein:

said communication satellite stations include a means for transmitting information about their own position; and

said mobile repeater stations include means for aiming an antenna beam thereof at the communication satellites according to received information about the position of the communication satellites and a detected position of the mobile repeater stations.

Claim 9 (Original). The land mobile satellite communication system as claimed in claim 3, wherein:

said communication satellite stations include a means for transmitting information about their own position; and

said mobile repeater stations include means for aiming an antenna beam thereof at the communication satellites according to received information about the position of the communication satellites and a detected position of the mobile repeater stations.

Claim 10 (Original). The land mobile satellite communication system as claimed in claim 2, wherein:

said communication satellite stations include a means for functioning as a Peering points or Proxies to provide accessibility to conventional land mobile telephone systems or Internet.

Claim 11 (Original). The land mobile satellite communication system as claimed in claim 2, wherein:

said communication satellite stations include a means for storing data received from said portable communication terminals and for functioning as servers.

Claim 12 (Original). The land mobile satellite communication system as claimed in claim 2, wherein:

said mobile repeater stations include a means for responding to a request from said communication satellite stations and / or portable communication terminals and for functioning as providers.

Claim 13 (canceled).

Claim 14 (previously presented). The land mobile satellite communication system as claimed in claim 3, wherein: said mobiles are vehicles.

Claim 15 (previously presented). The land mobile satellite communication system as claimed in claim 14, wherein: power supplies of said vehicles provide power to said mobile repeater stations.

Claim 16 (previously presented). The land mobile satellite communication system as claimed in

claim 3, wherein: said mobile repeater stations include high frequency plane antennas.

Claim 17 (previously presented). The land mobile satellite communication system as claimed in claim 3, wherein: communications between the portable communication terminals and the mobile repeater stations use S or near S frequency band ranging from 1-10 Ghz, and communications between the low earth communication satellite station and the mobile repeater stations use high frequency Ku band.

Claim 18 (previously presented). The land mobile satellite communication system as claimed in claim 3, wherein said mobile repeater stations include the functions of cache, proxy and server for storing transferred data.

Claim 19 (canceled).

Claim 20 (currently amended). The land mobile satellite communication system as claimed in claim 3, wherein the communication link is selectively established via the one of the plurality of communication channels including said mobile repeater stations ~~are selectively associated for use based on~~ station with appropriate proximity to the specific communication terminal and giving highest signal quality.

Claim 21 (new). The land mobile satellite communication system as claimed in claim 3, wherein the communication link is selectively established via the one of the plurality of

communication channels including said mobile repeater station giving highest signal quality.

Claim 22 (new). The land mobile satellite communication system as claimed in claim 21, wherein all others of the plurality of communication channels are reserved as spares for establishing the communication link, and the communication link may be selectively switched to be established via one of the spares when the signal quality for the one of the spares comes to exceed the signal quality of the one communication channel.

Claim 23 (new). The land mobile satellite communication system as claimed in claim 3, wherein said communication channels respectively include different ones of the mobile repeater stations which are located near the portable communication terminal.